

IN THE CLAIMS

1. - 4. (Canceled)

5. (Currently Amended) A precursor to an electron source, said precursor being one on which electron emitting devices and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising:

a substrate;

a first insulating film containing a metal oxide provided on ~~[[a]]~~ an upper surface of said substrate in an area except for a partial surface area of the upper surface of said substrate; and

a second insulating film provided on said first insulating film so as to cover said metal oxide,

wherein said second insulating film has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame is to be disposed.

6. (Currently Amended) A precursor to an electron source, said precursor being one on which electron emitting devices and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising:

a substrate;

a first SiO<sub>2</sub> film containing a metal oxide provided on ~~[[a]]~~ an upper surface of said substrate in an area except for a partial surface area of the upper surface of said substrate; and

a second SiO<sub>2</sub> film provided on said first SiO<sub>2</sub> film so as to cover said metal oxide,

wherein said second SiO<sub>2</sub> film has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame is to be disposed.

7. (Canceled)

8. (Previously Presented) A precursor according to Claim 5 or 6, wherein the metal oxide is particulate.

9. (Previously Presented) A precursor according to Claim 5 or 6, wherein the metal oxide is electron-conductive.

10. (Previously Presented) A precursor according to Claim 5 or 6, wherein the metal oxide is selected from the group consisting of Fe, Ni, Cu, Pd, Ir, In, Sn, Sb and Re.

11. (Canceled)

12. (Canceled)

13. (Currently Amended) A precursor to an electron source, said precursor being one on which electron emitting devices and a getter film are to be disposed, said precursor comprising:

a substrate; and

an insulating film containing a metal oxide provided on ~~[[a]]~~ an upper surface of said substrate in an area except for a partial surface area of the upper surface of said substrate,

wherein said insulating film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said getter film is to be disposed.

14. (Currently Amended) A precursor to an electron source, said precursor being one on which electron emitting devices and a getter film are to be disposed, said precursor comprising:

a substrate; and

a SiO<sub>2</sub> film containing a metal oxide provided on ~~[[a]]~~ an upper surface of said substrate in an area except for a partial surface area of the upper surface of said substrate,

wherein said SiO<sub>2</sub> film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said getter film is to be disposed.

15. (Previously Presented) A precursor according to Claim 14, further comprising another film including SiO<sub>2</sub> laminated on said SiO<sub>2</sub> film.

16. (Previously Presented) A precursor according to any one of Claims 13 – 15, wherein the metal oxide is electron-conductive.

17. (Previously Presented) A precursor according to any one of Claims 13 – 15, wherein the metal oxide is selected from the group consisting of Fe, Ni, Cu, Pd, Ir, In, Sn, Sb and Re.

18. - .21 (Canceled)

22. (Currently Amended) A precursor to an electron source, said precursor being one on which electron emitting devices, a getter film and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising:

a substrate; and

an insulating film containing a metal oxide provided on [[a]] an upper surface of said substrate in an area except for a partial surface area of the upper surface of said substrate,

wherein said insulating film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame and the getter film are to be disposed.

23. (Currently Amended) A precursor to an electron source, said precursor being one on which electron emitting devices, a getter film and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising:

a substrate; and

a SiO<sub>2</sub> film containing a metal oxide provided on [[a]] an upper surface of said substrate in an area except for a partial surface area of the upper surface of said substrate,

wherein said SiO<sub>2</sub> film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame and the getter film are to be disposed.

24. (Previously Presented) A precursor according to Claim 23, further comprising another film including SiO<sub>2</sub> disposed on said SiO<sub>2</sub> film.

25. (Previously Presented) A precursor according to any one of Claims 22 – 24, wherein the metal oxide is particulate.

26. (Previously Presented) A precursor according to any one of Claims 22 – 24, wherein the metal oxide is electron-conductive.

27. (Previously Presented) A precursor according to any one of Claims 22 – 24, wherein the metal oxide is selected from the group consisting of Fe, Ni, Cu, Pd, Ir, In, Sn, Sb and Re.

28. (Currently Amended) An electron source comprising:  
a precursor according to any one of Claims ~~5, 6, 11–15, and 18–24~~ 11, 12, and 18–21; and  
electron emitting devices disposed on said precursor.

29. (Previously Presented) An electron source according to Claim 28, wherein each of said electron emitting devices includes a conductive film including an electron emitting portion.

30. (Previously Presented) An electron source according to Claim 28, wherein at least some of the electron emitting devices are wired in a matrix configuration through a plurality of row-direction wires and a plurality of column-direction wires.

31. (Currently Amended) An image display device, comprising:  
an electron source, comprising  
a precursor according to any one of Claims ~~5, 6, 11-15, and 18-24~~ 11, 12, and 18-21, and  
electron emitting devices disposed on said precursor; and  
an image display member for displaying an image in response to being irradiated by electrons emitted from said electron emitting devices.

32. (Previously Presented) An image display device according to Claim 31, further comprising a supporting member coupling said electron source to said image display member.

33. (Previously Presented) An image display device according to Claim 31, wherein each of said electron emitting devices includes a conductive film having an electron emitting portion.

34. (Previously Presented) An image display device according to Claim 31, wherein at least some of the electron emitting devices are wired in a matrix configuration through a plurality of row-direction wires and a plurality of column-direction wires.

35. (New) An electron source comprising:

- a precursor to an electron source, said precursor being one on which electron emitting devices and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising
  - a substrate,
  - a first insulating film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate, and
  - a second insulating film provided on said first insulating film so as to cover said metal oxide,
- wherein said second insulating film has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame is to be disposed; and
- an electron emitting devices disposed on said precursor.

36. (New) An electron source comprising:



a precursor to an electron source, said precursor being one on which electron emitting devices and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising

a substrate,

a first SiO<sub>2</sub> film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate, and

a second SiO<sub>2</sub> film provided on said first SiO<sub>2</sub> film so as to cover said metal oxide,

wherein said second SiO<sub>2</sub> film has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame is to be disposed; and

an electron emitting devices disposed on said precursor.

37. (New) An electron source comprising:

a precursor to an electron source, said precursor being one on which electron emitting devices and a getter film are to be disposed, said precursor comprising

a substrate; and

an insulating film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate,

wherein said insulating film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said getter film is to be disposed; and

electron emitting devices disposed on said precursor.

38. (New) An electron source comprising:

a precursor to an electron source, said precursor being one on which electron emitting devices and a getter film are to be disposed, said precursor comprising a substrate, and

a SiO<sub>2</sub> film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate,

wherein said SiO<sub>2</sub> film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said getter film is to be disposed; and

electron emitting devices disposed on said precursor.

39. (New) An electron source according to Claim 38, further comprising another film including SiO<sub>2</sub> laminated on said SiO<sub>2</sub> film.

40. (New) An electron source comprising:

a precursor to an electron source, said precursor being one on which

electron emitting devices, a getter film and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising

a substrate, and

an insulating film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate,

wherein said insulating film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame and the getter film are to be disposed; and

electron emitting devices disposed on said precursor.

41. (New) An electron source comprising:

a precursor to an electron source, said precursor being one on which electron emitting devices, a getter film and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising

a substrate, and

a SiO<sub>2</sub> film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate,

wherein said SiO<sub>2</sub> film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame and the getter film are to be disposed; and

electron emitting devices disposed on said precursor.

42. (New) An electron source according to Claim 41, further comprising another film including SiO<sub>2</sub> disposed on said SiO<sub>2</sub> film.

43. (New) An image display device, comprising:  
an electron source, comprising  
a precursor to an electron source, said precursor being one on which electron emitting devices and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising  
a substrate,  
a first insulating film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate, and  
a second insulating film provided on said first insulating film so as to cover said metal oxide,  
wherein said second insulating film has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame is to be disposed;  
electron emitting devices disposed on said precursor; and  
an image display member for displaying an image in response to being irradiated by electrons emitted from said electron emitting devices.

44. (New) An image display device, comprising:

an electron source, comprising

a precursor to an electron source, said precursor being one on which electron emitting devices and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising:

a substrate,

a first SiO<sub>2</sub> film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate, and

a second SiO<sub>2</sub> film provided on said first SiO<sub>2</sub> film so as to cover said metal oxide,

wherein said second SiO<sub>2</sub> film has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame is to be disposed;

electron emitting devices disposed on said precursor; and

an image display member for displaying an image in response to being irradiated by electrons emitted from said electron emitting devices.

45. (New) An image display device, comprising:

an electron source, comprising

a precursor to an electron source, said precursor being one on which electron emitting devices and a getter film are to be disposed, said precursor comprising

a substrate, and

an insulating film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate,

wherein said insulating film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said getter film is to be disposed;

electron emitting devices disposed on said precursor; and

an image display member for displaying an image in response to being irradiated by electrons emitted from said electron emitting devices.

46. (New) An image display device, comprising:

an electron source, comprising

a precursor to an electron source, said precursor being one on which electron emitting devices and a getter film are to be disposed, said precursor comprising

a substrate, and

a SiO<sub>2</sub> film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate,

wherein said SiO<sub>2</sub> film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said getter film is to be disposed;

electron emitting devices disposed on said precursor; and

an image display member for displaying an image in response to being irradiated by electrons emitted from said electron emitting devices.

47. (New) An image display device according to Claim 46, further comprising another film including SiO<sub>2</sub> laminated on said SiO<sub>2</sub> film.

48. (New) An image display device, comprising:  
an electron source, comprising  
a precursor to an electron source, said precursor being one on which electron emitting devices, a getter film and a supporting frame coupled to an image display member to form an image display apparatus are to be disposed, said precursor comprising  
a substrate, and  
an insulating film containing a metal oxide provided on a surface of said substrate in an area except for a partial surface area of said substrate,  
wherein said insulating film containing metal oxide has a surface on which said electron emitting devices are to be disposed, and said partial surface area is an area in which said supporting frame and the getter film are to be disposed;  
electron emitting devices disposed on said precursor; and  
an image display member for displaying an image in response to being irradiated by electrons emitted from said electron emitting devices.

49. (New) An image display device, comprising  
an electron source, comprising  
a precursor to an electron source, said precursor being one on which  
electron emitting devices, a getter film and a supporting frame coupled to an image display  
member to form an image display apparatus are to be disposed, said precursor comprising  
a substrate, and  
a SiO<sub>2</sub> film containing a metal oxide provided on a surface of said  
substrate in an area except for a partial surface area of said substrate,  
wherein said SiO<sub>2</sub> film containing metal oxide has a surface on  
which said electron emitting devices are to be disposed, and said partial surface area is an  
area in which said supporting frame and the getter film are to be disposed;  
electron emitting devices disposed on said precursor; and  
an image display member for displaying an image in response to being  
irradiated by electrons emitted from said electron emitting devices.

50. (New) An image display device according to Claim 49, further  
comprising another film including SiO<sub>2</sub> disposed on said SiO<sub>2</sub> film.